



PCTEST ENGINEERING LABORATORY, INC.

6660-B Dobbin Road, Columbia, MD 21045 USA

Tel. 410.290.6652 / Fax 410.290.6554

<http://www.pctestlab.com>



CERTIFICATE OF COMPLIANCE FCC Part 22 & 24 Certification

Applicant Name:

LG Electronics USA
1000 Sylvan Avenue
Englewood Cliffs, NJ 07632
United States

Date of Testing:

October 21-22, 2008

Test Site/Location:

PCTEST Lab, Columbia, MD, USA

Test Report Serial No.:

0810171523.BEJ

FCC ID:**BEJLG410G****APPLICANT:****LG ELECTRONICS USA****Application Type:**

Certification

FCC Classification:

PCS Licensed Transmitter Held to Ear (PCE)

FCC Rule Part(s):

§2; §22(H), §24(E)

EUT Type:

850/1900 GSM/GPRS Phone

Model(s):

LG410G

Tx Frequency Range:

824.20 - 848.80MHz (Cell. GSM) / 1850.20 - 1909.80MHz (PCS GSM)

Max. RF Output Power:

0.838 W ERP Cell. GSM (29.23 dBm) / 1.995 W EIRP PCS GSM (33 dBm)

Emission Designator(s):

248KGXW (Cellular GSM), 243KGXW (PCS GSM)

Test Device Serial No.:

identical prototype [S/N: N/A]

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Grant Conditions: Power output listed is ERP for Part 22 and EIRP for Part 24.

PCTEST certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.


Randy Ortanez
President



FCC ID: BEJLG410G		FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 1 of 35

TABLE OF CONTENTS

FCC PART 22 & 24 MEASUREMENT REPORT	3
1.0 INTRODUCTION	4
1.1 SCOPE.....	4
1.2 TESTING FACILITY.....	4
2.0 PRODUCT INFORMATION.....	5
2.1 EQUIPMENT DESCRIPTION	5
2.2 EMI SUPPRESSION DEVICE(S)/MODIFICATIONS	5
2.3 LABELING REQUIREMENTS.....	5
3.0 DESCRIPTION OF TESTS	6
3.1 MEASUREMENT PROCEDURE.....	6
3.2 OCCUPIED BANDWIDTH EMISSION LIMITS	6
3.3 CELLULAR - BASE FREQUENCY BLOCKS	6
3.4 CELLULAR - MOBILE FREQUENCY BLOCKS.....	7
3.5 PCS - BASE FREQUENCY BLOCKS.....	7
3.6 PCS - MOBILE FREQUENCY BLOCKS	7
3.7 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL	7
3.8 RADIATED SPURIOUS AND HARMONIC EMISSIONS.....	8
3.9 PEAK-AVERAGE RATIO	8
3.10 FREQUENCY STABILITY / TEMPERATURE VARIATION	8
4.0 TEST EQUIPMENT CALIBRATION DATA	9
5.0 SAMPLE CALCULATIONS	10
6.0 TEST RESULTS	11
6.1 SUMMARY	11
6.2 CONDUCTED OUTPUT POWER	12
6.3 EFFECTIVE RADIATED POWER OUTPUT DATA.....	13
6.4 EQUIVALENT ISOTROPIC RADIATED POWER OUTPUT DATA	14
6.5 CELLULAR GSM RADIATED MEASUREMENTS.....	15
6.6 PCS GSM RADIATED MEASUREMENTS	18
6.7 CELLULAR GSM FREQUENCY STABILITY MEASUREMENTS	21
6.8 PCS GSM FREQUENCY STABILITY MEASUREMENTS	23
7.0 PLOTS OF EMISSIONS	25
8.0 CONCLUSION	35



MEASUREMENT REPORT

FCC Part 22 & 24



§2.1033 General Information

APPLICANT: LG Electronics USA
APPLICANT ADDRESS: 1000 Sylvan Avenue
 Englewood Cliffs, NJ 07632
TEST SITE: PCTEST ENGINEERING LABORATORY, INC.
TEST SITE ADDRESS: 6660-B Dobbin Road, Columbia, MD 21045 USA
FCC RULE PART(S): §2; §22(H), §24(E)
BASE MODEL : LG410G
FCC ID: BEJLG410G
FCC CLASSIFICATION: PCS Licensed Transmitter Held to Ear (PCE)
EMISSION DESIGNATOR(S): 248KGXW (Cellular GSM), 243KGXW (PCS GSM)
MODE: GSM
FREQUENCY TOLERANCE: $\pm 0.00025\%$ (2.5 ppm)
Test Device Serial No.: N/A ☐ Production ☒ Pre-Production ☐ Engineering
DATE(S) OF TEST: October 21-22, 2008
TEST REPORT S/N: 0810171523.BEJ

Test Facility / Accreditations

Measurements were performed at PCTEST Engineering Lab located in Columbia, MD 21045, U.S.A.



- PCTEST facility is an FCC registered (PCTEST Reg. No. 90864) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules and Industry Canada (IC-2451).
- PCTEST Lab is accredited to ISO 17025 by U.S. National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP Lab code: 100431-0) in EMC, FCC and Telecommunications.
- PCTEST Lab is accredited to ISO 17025:2005 by the American Association for Laboratory Accreditation (A2LA) in Specific Absorption Rate (SAR) testing, Hearing Aid Compatibility (HAC) testing, CTIA Test Plans, and wireless testing for FCC and Industry Canada Rules.
- PCTEST Lab is a recognized U.S. Conformity Assessment Body (CAB) in EMC and R&TTE (n.b. 0982) under the U.S.-EU Mutual Recognition Agreement (MRA).
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC Guide 65 by the American National Standards Institute (ANSI) in all scopes of FCC Rules and Industry Canada Standards (RSS).
- PCTEST facility is an IC registered (IC-2451) test laboratory with the site description on file at Industry Canada.
- PCTEST is a CTIA Authorized Test Laboratory (CATL) for AMPS, CDMA, and EvDO wireless devices and for Over-the-Air (OTA) Antenna Performance testing for AMPS, CDMA, GSM, GPRS, EGPRS, UMTS (W-CDMA), CDMA 1xEVDO, and CDMA 1xRTT.

FCC ID: BEJLG410G		FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 3 of 35

1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

1.2 Testing Facility

The map below shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity area, the Baltimore-Washington Internt'l (BWI) airport, the city of Baltimore and the Washington, DC area. (see Figure 1-1).

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N latitude and 76° 49'38" W longitude. The facility is 1.5 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2003 on January 27, 2006 and Industry Canada.

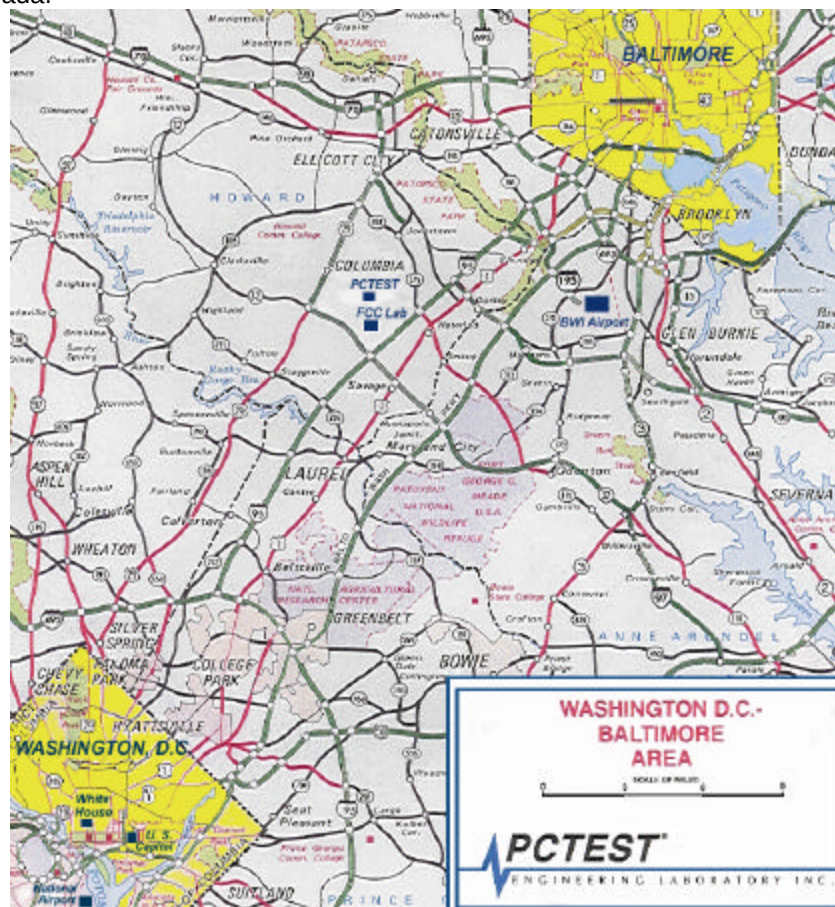


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

FCC ID: BEJLG410G	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)	LG	Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 4 of 35

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **LG 850/1900 GSM/GPRS Phone FCC ID: BEJLG410G**. The EUT consisted of the following component(s):

Trade Name / Base Model	FCC ID	Description
LG / Model: LG410G	BEJLG410G	850/1900 GSM/GPRS Phone

Table 2-1. EUT Equipment Description

2.2 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

2.3 Labeling Requirements

Per 2.925

The FCC identifier shall be permanently affixed to the equipment and shall be readily visible to the purchaser at the time of purchase.

Per 15.19; Docket 95-19

In addition to this requirement, a device subject to certification shall be labeled as follows:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the trade name and FCC ID must be displayed on the device per Section 15.19(b)(2).

Please see attachment for FCC ID label and label location.

FCC ID: BEJLG410G		FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 5 of 35

3.0 DESCRIPTION OF TESTS

3.1 Measurement Procedure

The radiated spurious measurements were made outdoors at a 3-meter test range (see Figure 3-1). The equipment under test is placed on a wooden turntable 3-meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic antenna are taken into consideration.

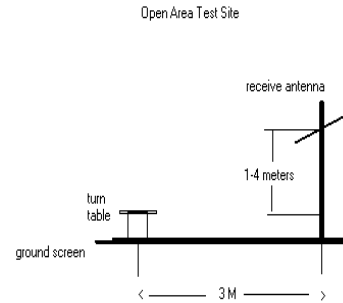


Figure 3-1. Diagram of 3-meter outdoor test range

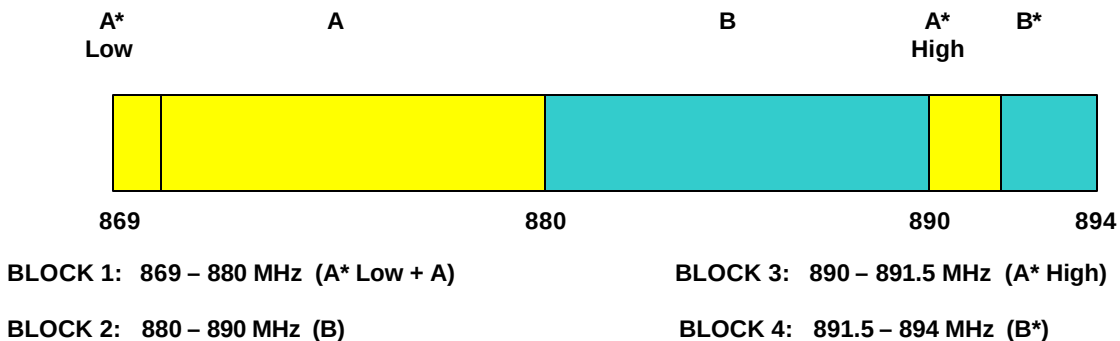
Deviation from Measurement Procedure.....None

3.2 Occupied Bandwidth Emission Limits

§2.1049, 22.917(a), 24.238(a)

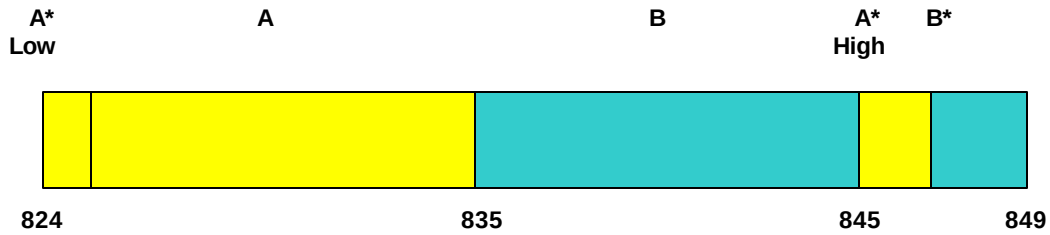
- On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB.
- Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
- When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges, both upper and lower, as the design permits.
- The measurement of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.

3.3 Cellular - Base Frequency Blocks



FCC ID: BEJLG410G	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 6 of 35

3.4 Cellular - Mobile Frequency Blocks



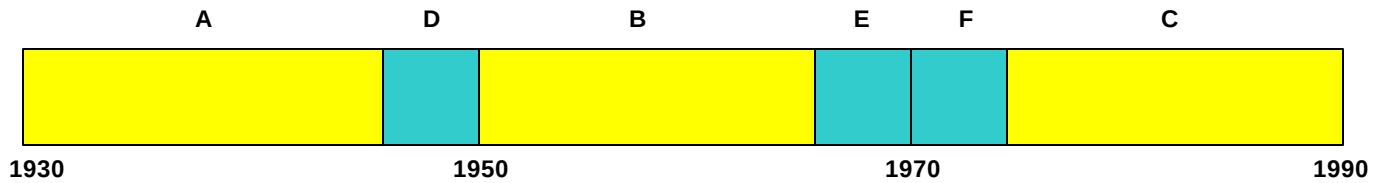
BLOCK 1: 824 – 835 MHz (A* Low + A)

BLOCK 3: 845 – 846.5 MHz (A* High)

BLOCK 2: 835 – 845 MHz (B)

BLOCK 4: 846.5 – 849 MHz (B*)

3.5 PCS - Base Frequency Blocks



BLOCK 1: 1930 – 1945 MHz (A)

BLOCK 4: 1965 – 1970 MHz (E)

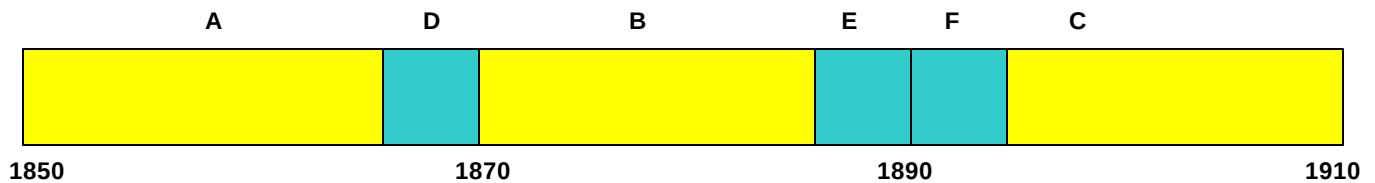
BLOCK 2: 1945 – 1950 MHz (D)

BLOCK 5: 1970 – 1975 MHz (F)

BLOCK 3: 1950 – 1965 MHz (B)

BLOCK 6: 1975 – 1990 MHz (C)

3.6 PCS - Mobile Frequency Blocks



BLOCK 1: 1850 – 1865 MHz (A)

BLOCK 4: 1885 – 1890 MHz (E)

BLOCK 2: 1865 – 1870 MHz (D)

BLOCK 5: 1890 – 1895 MHz (F)

BLOCK 3: 1870 – 1885 MHz (B)

BLOCK 6: 1895 – 1910 MHz (C)

3.7 Spurious and Harmonic Emissions at Antenna Terminal

§2.1051, 22.917(a), 24.238(a)

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic.

FCC ID: BEJLG410G		FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone	Page 7 of 35	

3.8 Radiated Spurious and Harmonic Emissions

§2.1053, 22.917(a), 24.238(a)

Spurious and harmonic radiated emissions are measured outdoors at our 3meter test range. The equipment under test is placed on a wooden turntable 3-meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer reading. This level is recorded. For readings above 1 GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration. This device was tested in all configurations and the highest power is reported in GSM voice mode while using a Power Control Level of "5" in the Cellular band and "0" in the PCS band.

3.9 Peak-Average Ratio

§24.232(d)

A peak to average ratio measurement is performed at the conducted port of the EUT. For CDMA and WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. For GSM signals, an average and a peak trace are used on a spectrum analyzer to determine the largest deviation between the average and the peak power of the EUT in a bandwidth greater than the emission bandwidth.

3.10 Frequency Stability / Temperature Variation

§2.1055, 22.355, 24.235

The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Specification – The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

Time Period and Procedure:

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a "standby" condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

FCC ID: BEJLG410G		FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone	Page 8 of 35	

4.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST).

Manufacturer	Model	Description	Calibration Date	Cal Interval	Calibration Due	Serial No.
-	263-10dB	(DC-18GHz) 10 dB Attenuator	N/A		N/A	N/A
-	No.165	(30MHz - 1000MHz) RG58 Coax Cable	N/A		N/A	N/A
-	No.166	(1000-26500MHz) Microwave RF Cable	N/A		N/A	N/A
-	No.167	(100kHz - 100MHz) RG58 Coax Cable	N/A		N/A	N/A
Agilent	11713A	Attenuation/Switch Driver	12/13/07	Annual	12/13/08	3439A02645
Agilent	8449B	(1-26.5GHz) Pre-Amplifier	12/13/07	Annual	12/12/08	3008A00985
Agilent	8495A	(0-70dB) DC-4GHz Attenuator	N/A		N/A	N/A
Agilent	85650A	Quasi-Peak Adapter	03/13/08	Annual	03/13/09	2043A00301
Agilent	8566B	(100Hz-22GHz) Spectrum Analyzer	12/13/07	Annual	12/13/08	3638A08713
Agilent	8566B	Opt. 462 Impulse Bandwidth	12/13/07	Annual	12/12/08	3701A22204
Agilent	8591A	(9kHz-1.8GHz) Spectrum Analyzer	08/19/08	Annual	08/19/09	3144A02458
Agilent	8648D	(9kHz-4GHz) Signal Generator	10/11/07	Biennial	10/10/09	3613A00315
Agilent	E4407B	ESA Spectrum Analyzer	03/13/08	Annual	03/13/09	US39210313
Agilent	E4448A	(3Hz-50GHz) Spectrum Analyzer	01/24/08	Annual	01/24/09	US42510244
Agilent	E5515C	Wireless Communications Test Set	06/08/07	Biennial	06/08/09	GB46110872
Agilent	E5515C	Wireless Communications Test Set	06/08/07	Biennial	06/08/09	GB46310798
Agilent	E5515C	Wireless Communications Test Set	09/10/08	Biennial	09/10/10	GB41450275
Agilent	E8257D	(250kHz-20GHz) Signal Generator	03/08/07	Biennial	03/08/09	MY45470194
Compliance Design	Roberts	Dipole Set	11/09/07	Biennial	11/08/09	146
Compliance Design	Roberts	Dipole Set	11/09/07	Biennial	11/08/09	147
Emco	3115	Horn Antenna (1-18GHz)	9/24/07	Biennial	9/23/09	9704-5182
Emco	3115	Horn Antenna (1-18GHz)	10/4/07	Biennial	10/3/09	9205-3874
Emco	3121C-DB4	Dipole Antenna	1/23/07	Biennial	1/22/09	00023951
Espec	ESX-2CA	Environmental Chamber	3/12/08	Annual	3/12/09	017620
Gigatronics	80701A	(0.05-18GHz) Power Sensor	8/18/08	Annual	8/18/09	1833460
Gigatronics	8651A	Universal Power Meter	8/18/08	Annual	8/18/09	1835299
Gigatronics	8651A	Universal Power Meter	8/18/08	Annual	8/18/09	8650319
K & L	11SH10	Band Pass Filter	N/A	Annual	N/A	1300/4000
K & L	11SH10	Band Pass Filter	N/A	Annual	N/A	
MiniCircuits	VHF-1300+	High Pass Filter	N/A		N/A	30716
MiniCircuits	VHF-3100+	High Pass Filter	N/A		N/A	30721
Pasternack	PE2208-6	Bidirectional Coupler	N/A		N/A	
Rohde & Schwarz	CMU200	Base Station Simulator	5/29/08	Annual	5/29/09	836371/0079
Rohde & Schwarz	CMU200	Base Station Simulator	12/6/07	Annual	12/5/08	107826
Rohde & Schwarz	CMU200	Base Station Simulator	7/23/08	Annual	7/23/09	109892
Rohde & Schwarz	NRVD	Dual Channel Power Meter	12/12/06	Biennial	12/11/08	101695
Rohde & Schwarz	NRVS	Single Channel Power Meter	7/3/07	Biennial	7/2/09	835360/0079
Rohde & Schwarz	NRV-Z32	Peak Power Sensor (100uW-2W)	12/21/06	Biennial	12/20/08	100155
Rohde & Schwarz	NRV-Z33	Peak Power Sensor (1mW-20W)	11/28/06	Biennial	11/27/08	100004
Rohde & Schwarz	NRV-Z53	Power Sensor	7/3/07	Biennial	7/2/09	846076/0007
Schwarzbeck	UHA9105	Dipole Antenna (400 - 1GHz) Rx	6/19/07	Biennial	6/18/09	9105-2404
Schwarzbeck	UHA9105	Dipole Antenna (400 - 1GHz) Tx	6/19/07	Biennial	6/18/09	9105-2403
Solar Electronics	8012-50-R-24-BNC	LISN	11/8/07	Biennial	11/8/09	0310233
Sunol	DRH-118	Horn Antenna (1 - 18GHz)	5/9/07	Biennial	5/8/09	A050307

Table 4-1. Test Equipment

FCC ID: BEJLG410G		FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 9 of 35

5.0 SAMPLE CALCULATIONS

Emission Designator

Emission Designator = 250KGXW

GSM BW = 250 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

Spurious Radiated Emission - PCS Band

Example: Channel 512 PCS Mode 2nd Harmonic (3700.40 MHz)

The receive analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the receive analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 3700.40 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.501 dBm so this harmonic was 25.501 dBm - (-24.80) = 50.3 dBc.

FCC ID: BEJLG410G		FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone	Page 10 of 35	

6.0 TEST RESULTS

6.1 Summary

Company Name: LG Electronics USA
 FCC ID: BEJLG410G
 FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
 Mode(s): GSM

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
TRANSMITTER MODE (TX)					
2.1049, 22.917(a), 24.238(a)	Occupied Bandwidth	N/A	CONDUCTED	PASS	Section 7.0
2.1051, 22.917(a), 24.238(a)	Band Edge / Conducted Spurious Emissions	< 43 + log ₁₀ (P[Watts]) at Band Edge and for all out-of-band emissions		PASS	Section 7.0
24.232(d)	Peak-Average Ratio	< 13 dB		PASS	Section 7.0
2.1046	Transmitter Conducted Output Power	N/A		PASS	Section 6.2
22.913(a)(2)	Effective Radiated Power	< 7 Watts max. ERP (<6.3 Watts max. ERP (IC))	RADIATED	PASS	Section 6.3
24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts max. EIRP		PASS	Section 6.4
2.1053, 22.917(a), 24.238(a)	Undesirable Emissions	< 43 + log ₁₀ (P[Watts]) for all out-of-band emissions		PASS	Sections 6.5, 6.6
2.1055, 22.355, 24.235	Frequency Stability	< 2.5 ppm		PASS	Sections 6.7, 6.8
RECEIVER MODE (RX) / DIGITAL EMISSIONS					
15.107	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.107 limits	LINE CONDUCTED	PASS	Pt. 15B Test Report
15.109	General Field Strength Limits (Restricted Bands and Radiated Emissions Limits)	< FCC 15.109 limits	RADIATED (30MHz-1GHz) (1-25 GHz)	PASS	Pt. 15B Test Report
RF EXPOSURE					
2.1091 / 2.1093	SAR Test	1.6 W/kg (SAR Limit)	SAR	PASS	SAR Report

Table 6-1. Summary of Test Results

FCC ID: BEJLG410G		FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone	Page 11 of 35	

6.2 Conducted Output Power

S2.1046

A base station simulator (Rhode and Schwartz Model: CMU200) was used to establish communication with the **LG 850/1900 GSM/GPRS Phone FCC ID: BEJLG410G**. The base station simulator parameters were set to produce the maximum power from the EUT. This device was tested in all configurations and the highest power is reported in GSM voice mode while using a Power Control Level of "5" in the Cellular band and "0" in the PCS band. The powers are reported below.

Band	Channel	GSM		GPRS	
		Power Control Level	Conducted Power	Uplink / Downlink Slots Used	Conducted Power
			[dBm]		[dBm]
Cellular	128	5	32.12	1/1	32.12
	190	5	32.25	1/1	32.24
	251	5	31.98	1/1	31.99
PCS	512	0	29.94	1/1	29.94
	661	0	29.82	1/1	29.81
	810	0	29.47	1/1	29.48

Table 6-2. GSM Conducted Output Powers

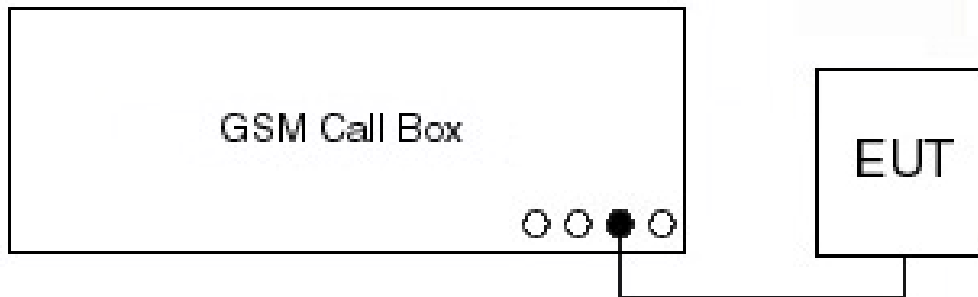


Figure 6-1. GSM Conducted Power Test Setup Diagram

FCC ID: BEJLG410G	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)	LG	Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 12 of 35

6.3 Effective Radiated Power Output Data

§22.913(a)(2)

POWER: PCL "5" (Cellular GSM Mode)

Frequency [MHz]	Mode	Measured Level [dBm]	Substitute Level [dBm]	Antenna Gain [dBd]	Pol [H/V]	ERP [dBm]	ERP [Watts]	Battery Type
824.20	GSM850	-13.380	25.18	0.00	H	25.18	0.330	Standard
836.60	GSM850	-11.270	27.29	0.00	H	27.29	0.536	Standard
848.80	GSM850	-9.330	29.23	0.00	H	29.23	0.838	Standard

Table 6-3. Effective Radiated Power Output Data

NOTES:

Effective Radiated Power Output Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the dipole is measured. The ERP is recorded.

This device was tested in all configurations and the highest power is reported in GSM voice mode while using a Power Control Level of "5" in the Cellular band and "0" in the PCS band. This unit was tested with its standard battery.

FCC ID: BEJLG410G		FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 13 of 35

6.4 Equivalent Isotropic Radiated Power Output Data

§24.232(c)

POWER: PCL "0" (PCS GSM Mode)

Frequency [MHz]	Mode	Measured Level [dBm]	Substitute Level [dBm]	Antenna Gain [dBi]	Pol [H/V]	EIRP [dBm]	EIRP [Watts]	Battery Type
1850.20	GSM1900	-11.040	22.52	8.00	H	30.52	1.127	Standard
1880.00	GSM1900	-10.250	23.31	8.00	H	31.31	1.352	Standard
1909.80	GSM1900	-8.560	25.00	8.00	H	33.00	1.995	Standard

Table 6-4. Equivalent Isotropic Radiated Power Output Data

NOTES:

Equivalent Isotropic Radiated Power Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the Horn antenna is measured. The difference between the gain of the horn and an isotropic antenna is taken into consideration and the EIRP is recorded.

This device was tested in all configurations and the highest power is reported in GSM voice mode while using a Power Control Level of "5" in the Cellular band and "0" in the PCS band. This unit was tested with its standard battery.

FCC ID: BEJLG410G		FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 14 of 35

6.5 Cellular GSM Radiated Measurements

§2.1053, 22.917(a); RSS-132 (4.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 824.20 MHz
 CHANNEL: 128
 MEASURED OUTPUT POWER: 29.230 dBm = 0.838 W
 MODULATION SIGNAL: GSM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 42.23 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1648.40	-31.98	6.08	-25.90	H	55.1
2472.60	-33.98	6.53	-27.45	H	56.7
3296.80	-51.98	6.87	-45.11	H	74.3
4121.00	-96.27	7.21	-89.06	H	118.3
4945.20	-95.92	8.37	-87.55	H	116.8

Table 6-5. Radiated Spurious Data (Cellular GSM Mode – Ch. 128)

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device was tested in all configurations and the highest power is reported in GSM voice mode while using a Power Control Level of "5" in the Cellular band and "0" in the PCS band. This unit was tested with its standard battery.

FCC ID: BEJLG410G		FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 15 of 35

Cellular GSM Radiated Measurements (Cont'd)

§2.1053, 22.917(a); RSS-132 (4.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 836.60 MHz
 CHANNEL: 190
 MEASURED OUTPUT POWER: 29.230 dBm = 0.838 W
 MODULATION SIGNAL: GSM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 42.23 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1673.20	-31.47	6.09	-25.38	H	54.6
2509.80	-32.02	6.55	-25.47	H	54.7
3346.40	-51.67	6.89	-44.78	H	74.0
4183.00	-55.28	7.43	-47.85	H	77.1
5019.60	-95.63	8.35	-87.28	H	116.5

Table 6-6. Radiated Spurious Data (Cellular GSM Mode – Ch. 190)

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device was tested in all configurations and the highest power is reported in GSM voice mode while using a Power Control Level of "5" in the Cellular band and "0" in the PCS band. This unit was tested with its standard battery.

FCC ID: BEJLG410G		FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 16 of 35

Cellular GSM Radiated Measurements (Cont'd)

§2.1053, 22.917(a); RSS-132 (4.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 848.80 MHz
 CHANNEL: 251
 MEASURED OUTPUT POWER: 29.230 dBm = 0.838 W
 MODULATION SIGNAL: CDMA (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 42.23 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1697.60	-29.66	6.09	-23.57	H	52.8
2546.40	-34.10	6.57	-27.53	H	56.8
3395.20	-52.66	6.91	-45.75	H	75.0
4244.00	-56.30	7.65	-48.64	H	77.9
5092.80	-95.33	8.33	-87.00	H	116.2

Table 6-7. Radiated Spurious Data (Cellular GSM Mode – Ch. 251)

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device was tested in all configurations and the highest power is reported in GSM voice mode while using a Power Control Level of "5" in the Cellular band and "0" in the PCS band. This unit was tested with its standard battery.

FCC ID: BEJLG410G		FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 17 of 35

6.6 PCS GSM Radiated Measurements

§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1850.20 MHz
 CHANNEL: 512
 MEASURED OUTPUT POWER: 33.010 dBm = 2.000 W
 MODULATION SIGNAL: GSM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 46.01 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3700.40	-39.46	9.02	-30.44	H	63.5
5550.60	-42.81	10.40	-32.41	H	65.4
7400.80	-92.00	10.50	-81.50	H	114.5
9251.00	-43.34	11.85	-31.49	H	64.5
11101.20	-89.92	12.76	-77.16	H	110.2

Table 6-8. Radiated Spurious Data (PCS GSM Mode – Ch. 512)

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device was tested in all configurations and the highest power is reported in GSM voice mode while using a Power Control Level of "5" in the Cellular band and "0" in the PCS band. This unit was tested with its standard battery.

FCC ID: BEJLG410G		FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 18 of 35

PCS GSM Radiated Measurements (Cont'd)

§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 661
 MEASURED OUTPUT POWER: 33.010 dBm = 2.000 W
 MODULATION SIGNAL: GSM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 46.01 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3760.00	-38.23	8.99	-29.24	H	62.2
5640.00	-47.42	10.40	-37.02	H	70.0
7520.00	-92.03	10.62	-81.41	H	114.4
9400.00	-41.49	11.70	-29.79	H	62.8
11280.00	-89.26	12.69	-76.58	H	109.6

Table 6-9. Radiated Spurious Data (PCS GSM Mode – Ch. 661)

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device was tested in all configurations and the highest power is reported in GSM voice mode while using a Power Control Level of "5" in the Cellular band and "0" in the PCS band. This unit was tested with its standard battery.

FCC ID: BEJLG410G		FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 19 of 35

PCS GSM Radiated Measurements (Cont'd)

§2.1053, 24.238(a); RSS-133 (6.5.1)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY: 1909.80 MHz
 CHANNEL: 810
 MEASURED OUTPUT POWER: 33.010 dBm = 2.000 W
 MODULATION SIGNAL: GSM (Internal)
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 46.01 dBc

FREQUENCY (MHz)	LEVEL @ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3819.60	-31.40	8.97	-22.43	H	55.4
5729.40	-48.94	10.40	-38.54	H	71.6
7639.20	-91.96	10.71	-81.25	H	114.3
9549.00	-45.47	11.64	-33.83	H	66.8
11458.80	-88.61	12.62	-76.00	H	109.0

Table 6-10. Radiated Spurious Data (PCS GSM Mode – Ch. 810)

NOTES:

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3 MHz. For WCDMA signals, a peak detector is used, with RBW = VBW = 5 MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1 MHz. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

This device was tested in all configurations and the highest power is reported in GSM voice mode while using a Power Control Level of "5" in the Cellular band and "0" in the PCS band. This unit was tested with its standard battery.

FCC ID: BEJLG410G		FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 20 of 35

6.7 Cellular GSM Frequency Stability Measurements

§2.1055, 22.355; RSS-132 (4.3)

OPERATING FREQUENCY: 836,600,000 Hz

CHANNEL: 190

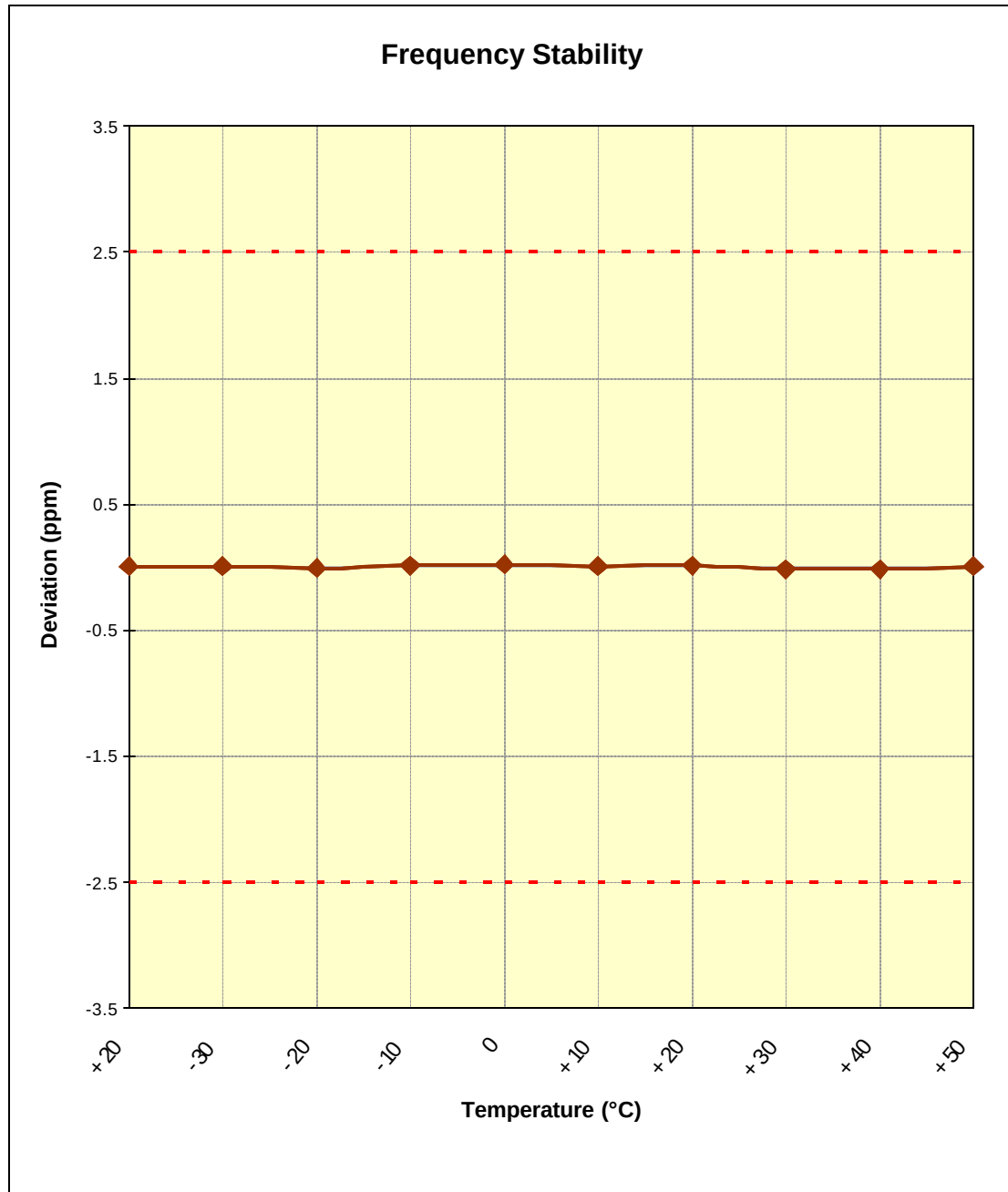
REFERENCE VOLTAGE: 3.7 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	836,600,010	10	0.000001
100 %		- 30	836,600,005	5	0.000001
100 %		- 20	836,599,992	-8	-0.000001
100 %		- 10	836,600,016	16	0.000002
100 %		0	836,600,021	21	0.000003
100 %		+ 10	836,600,010	10	0.000001
100 %		+ 20	836,600,014	14	0.000002
100 %		+ 30	836,599,984	-16	-0.000002
100 %		+ 40	836,599,985	-15	-0.000002
100 %		+ 50	836,600,010	10	0.000001
115 %	4.26	+ 20	836,600,013	13	0.000002
BATT. ENDPOINT	3.40	+ 20	836,599,990	-10	-0.000001

Table 6-11. Frequency Stability Data (Cellular GSM Mode – Ch. 190)

Cellular GSM Frequency Stability Measurements (Cont'd)
§2.1055, 22.355; RSS-132 (4.3)



Plot 6-1. Frequency Stability Graph (Cellular GSM Mode – Ch. 190)

FCC ID: BEJLG410G	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)	LG	Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 22 of 35

6.8 PCS GSM Frequency Stability Measurements

§2.1055, 24.235; RSS-133 (6.3)

OPERATING FREQUENCY: 1,880,000,000 Hz

CHANNEL: 661

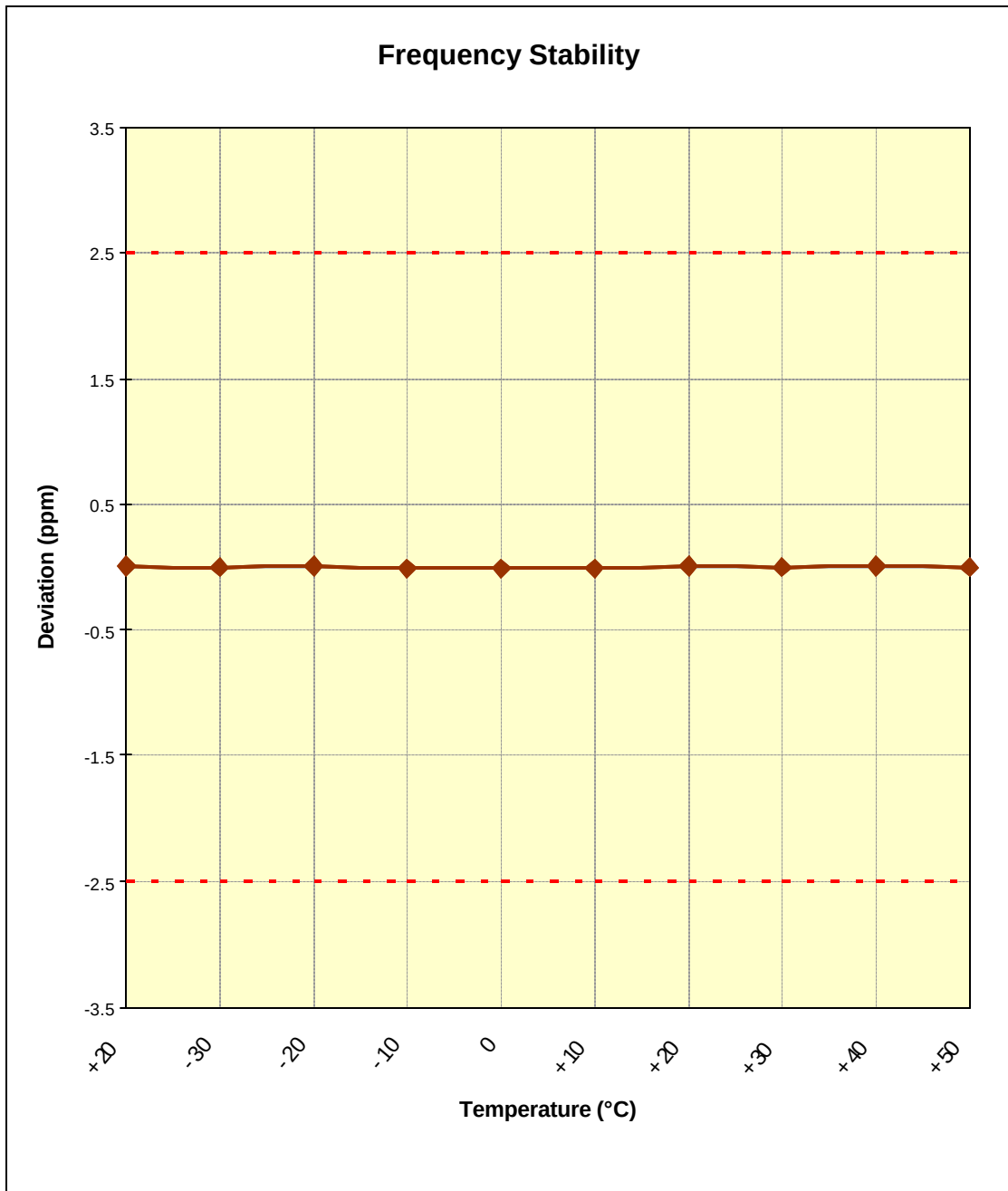
REFERENCE VOLTAGE: 3.7 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	1,880,000,010	10	0.000001
100 %		- 30	1,880,000,004	4	0.000000
100 %		- 20	1,880,000,014	14	0.000001
100 %		- 10	1,879,999,984	-16	-0.000001
100 %		0	1,879,999,985	-15	-0.000001
100 %		+ 10	1,879,999,990	-10	-0.000001
100 %		+ 20	1,880,000,008	8	0.000000
100 %		+ 30	1,880,000,004	4	0.000000
100 %		+ 40	1,880,000,011	11	0.000001
100 %		+ 50	1,879,999,993	-7	0.000000
115 %	4.26	+ 20	1,880,000,012	12	0.000001
BATT. ENDPOINT	3.40	+ 20	1,879,999,990	-10	-0.000001

Table 6-12. Frequency Stability Data (PCS GSM Mode – Ch. 661)

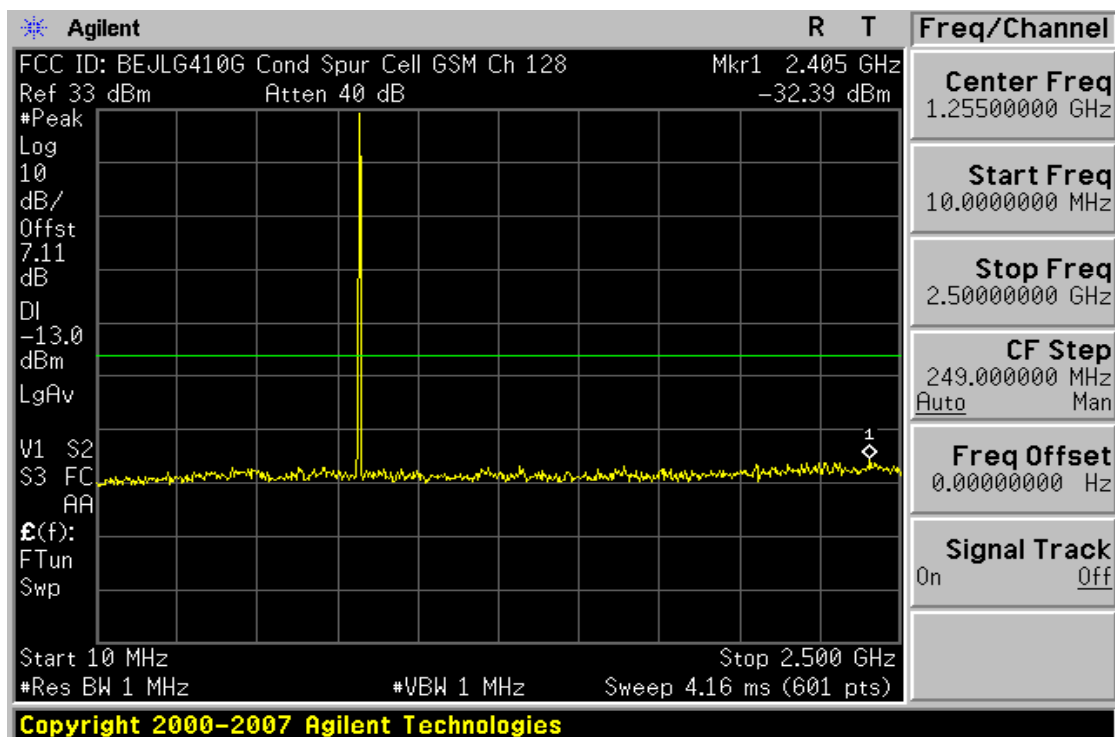
PCS GSM Frequency Stability Measurements (Cont'd)
§2.1055, 24.235; RSS-133 (6.3)



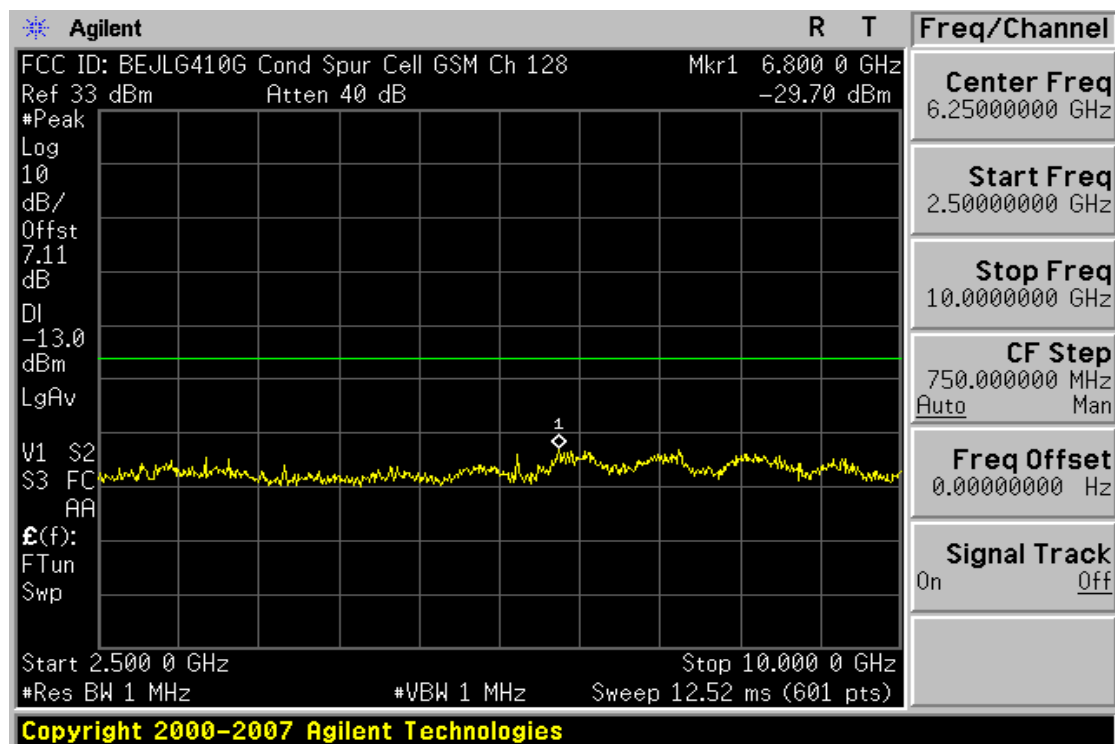
Plot 6-2. Frequency Stability Graph (PCS GSM Mode – Ch. 661)

FCC ID: BEJLG410G		FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 24 of 35

7.0 PLOTS OF EMISSIONS

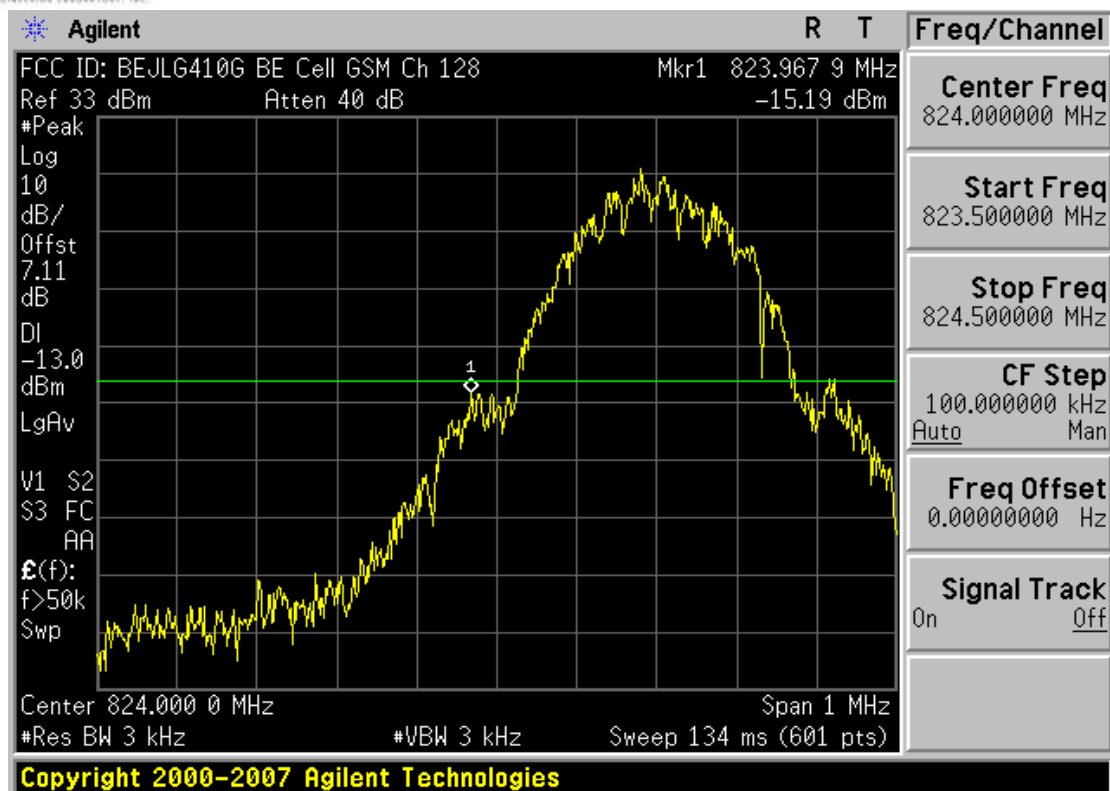


Plot 7-1. Conducted Spurious Plot (Cellular GSM Mode – Ch. 128)

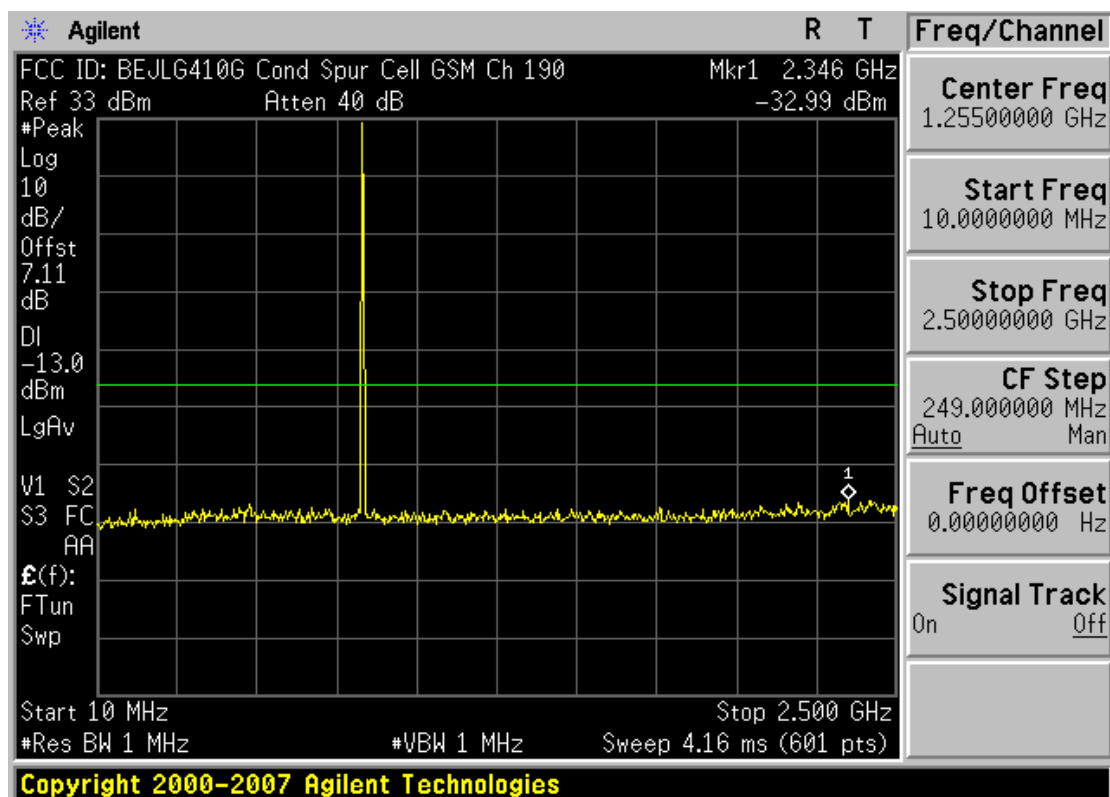


Plot 7-2. Conducted Spurious Plot (Cellular GSM Mode – Ch. 128)

FCC ID: BEJLG410G	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 25 of 35

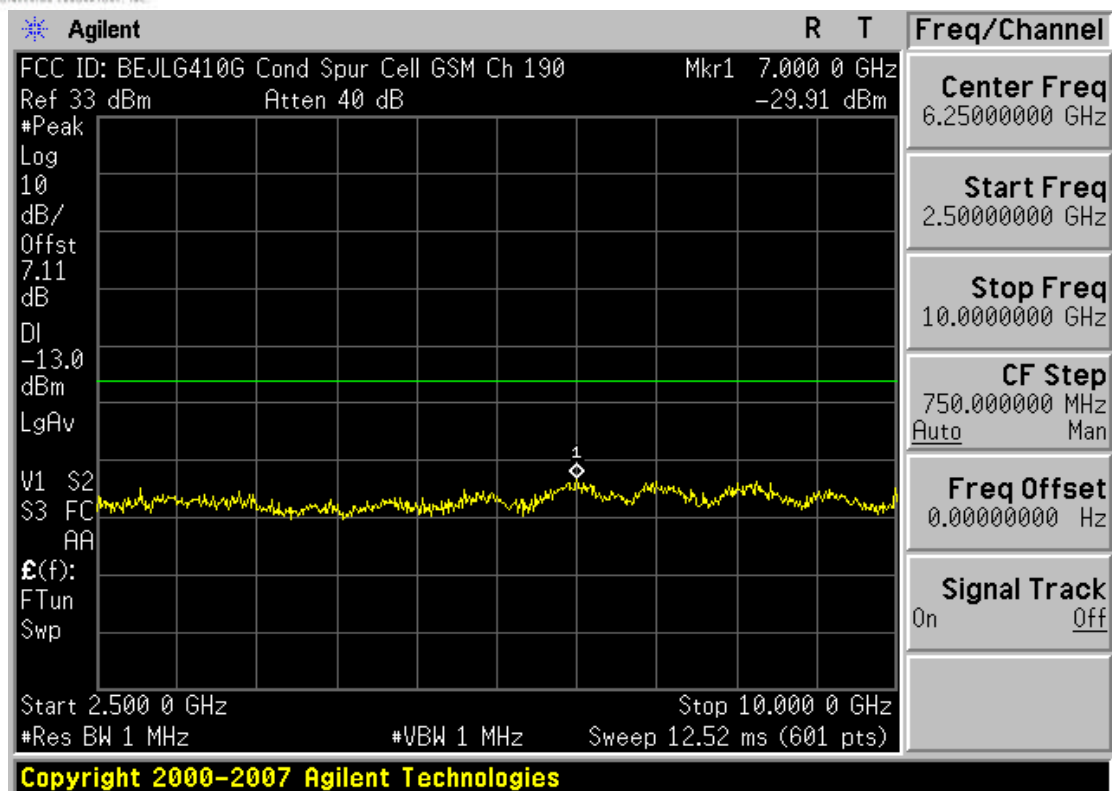


Plot 7-3. Band Edge Plot (Cellular GSM Mode – Ch. 128)

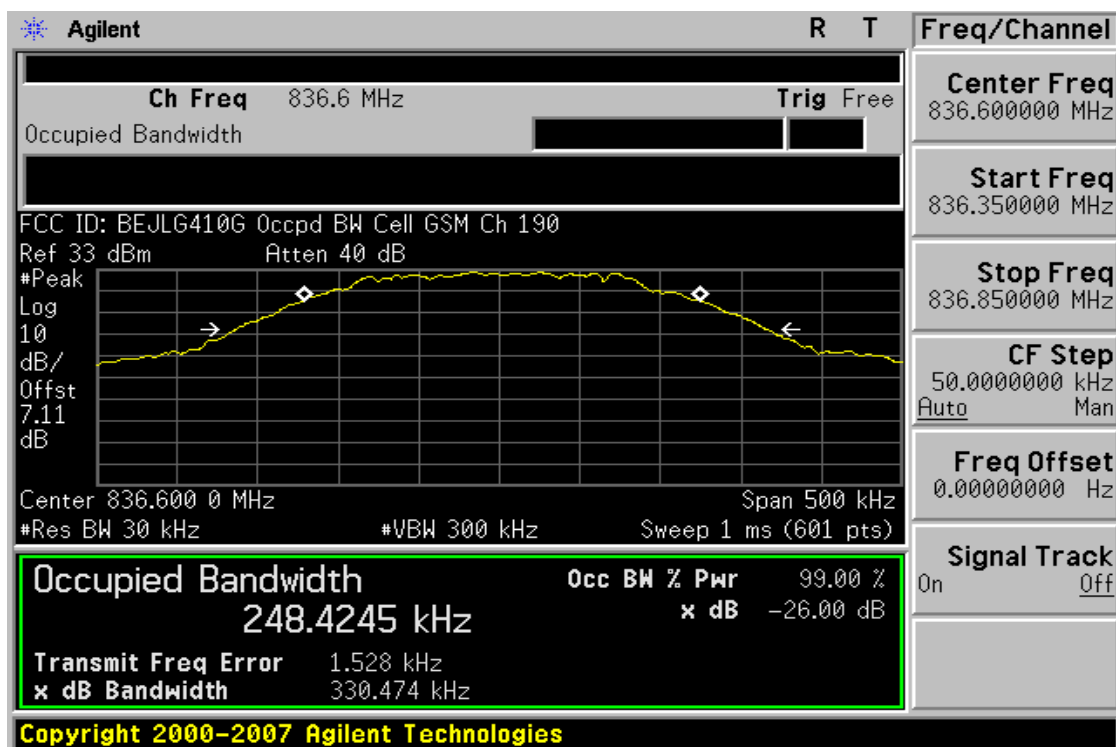


Plot 7-4. Conducted Spurious (Cellular GSM Mode – Ch. 190)

FCC ID: BEJLG410G	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)	LG	Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 26 of 35

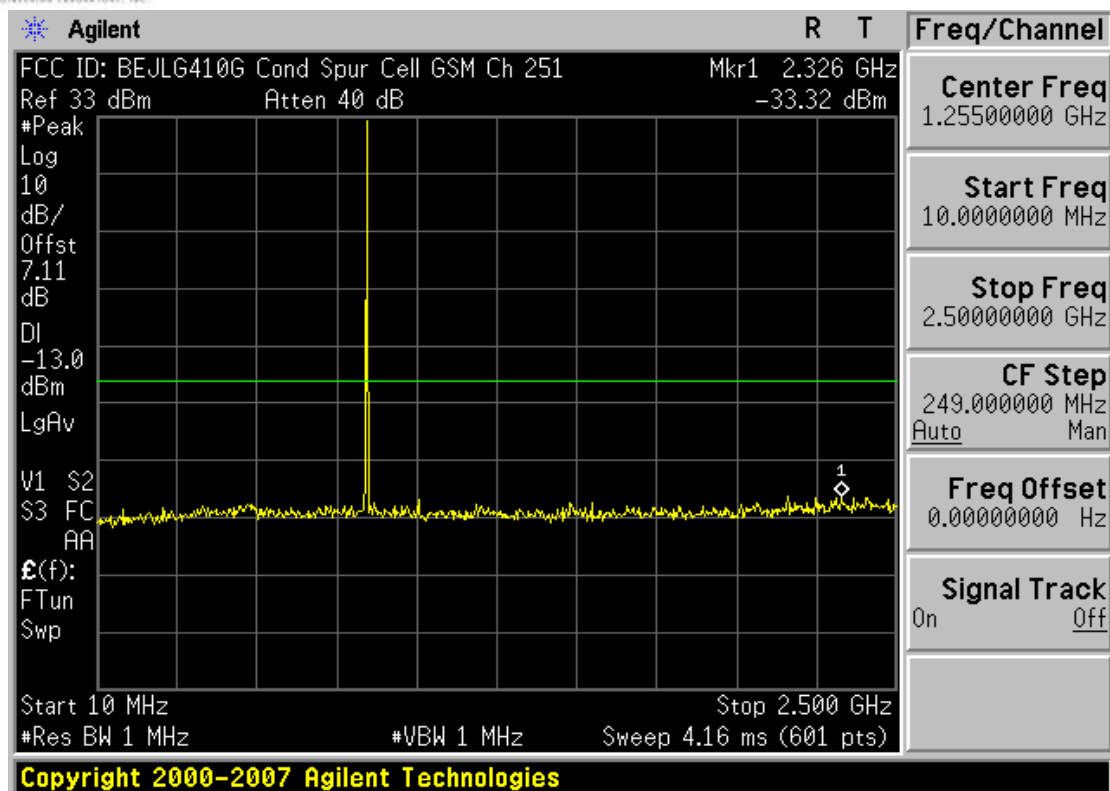


Plot 7-5. Conducted Spurious Plot (Cellular GSM Mode – Ch. 190)

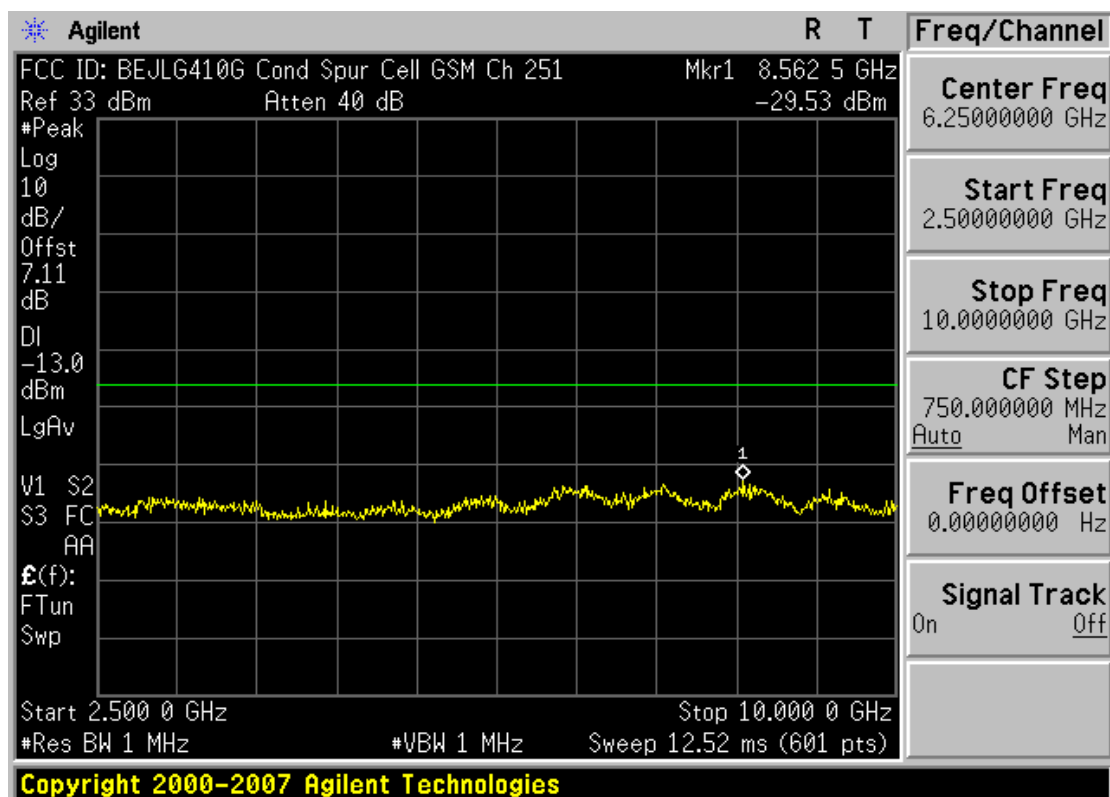


Plot 7-6. Occupied Bandwidth Plot (Cellular GSM Mode – Ch. 190)

FCC ID: BEJLG410G	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 27 of 35

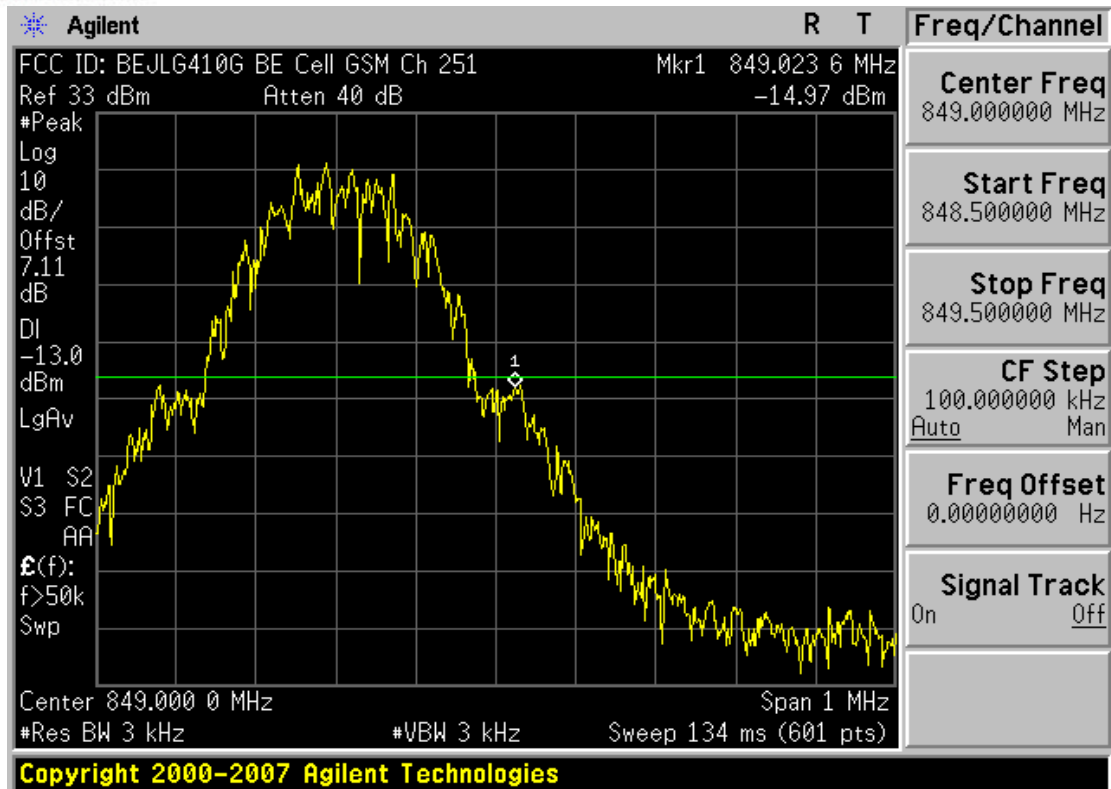


Plot 7-7. Conducted Spurious Plot (Cellular GSM Mode – Ch. 251)

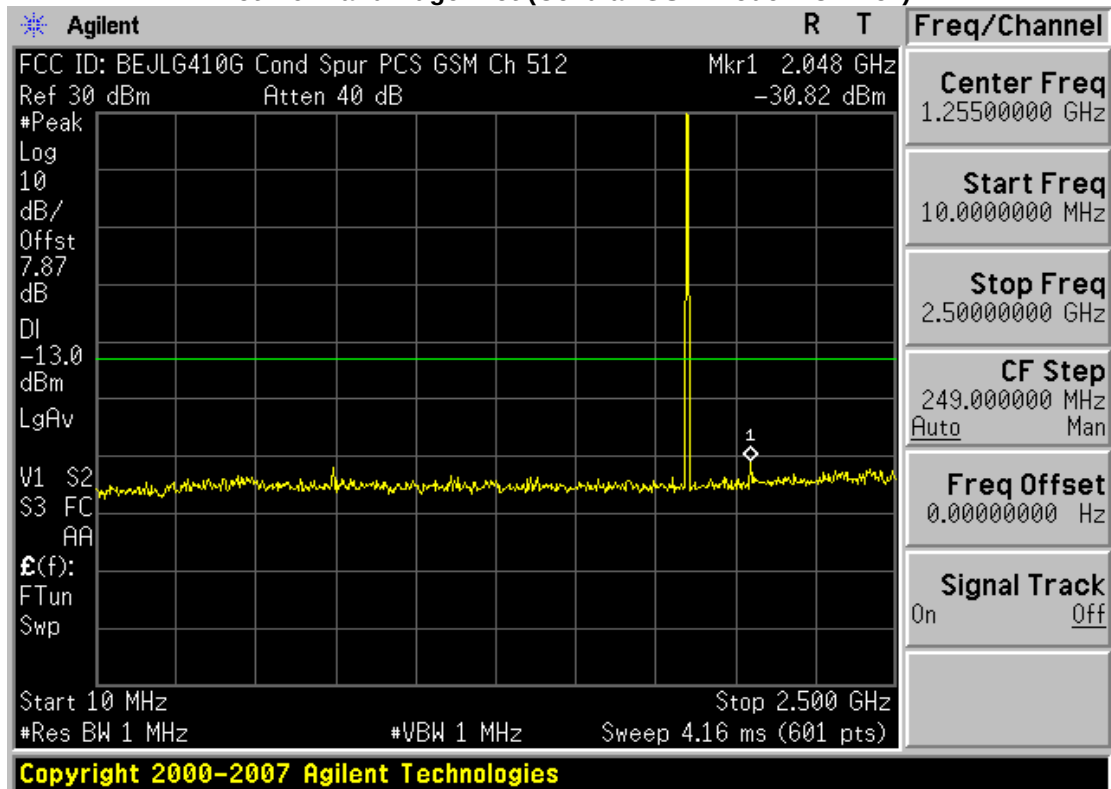


Plot 7-8. Conducted Spurious Plot (Cellular GSM Mode – Ch. 251)

FCC ID: BEJLG410G	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)	LG	Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 28 of 35

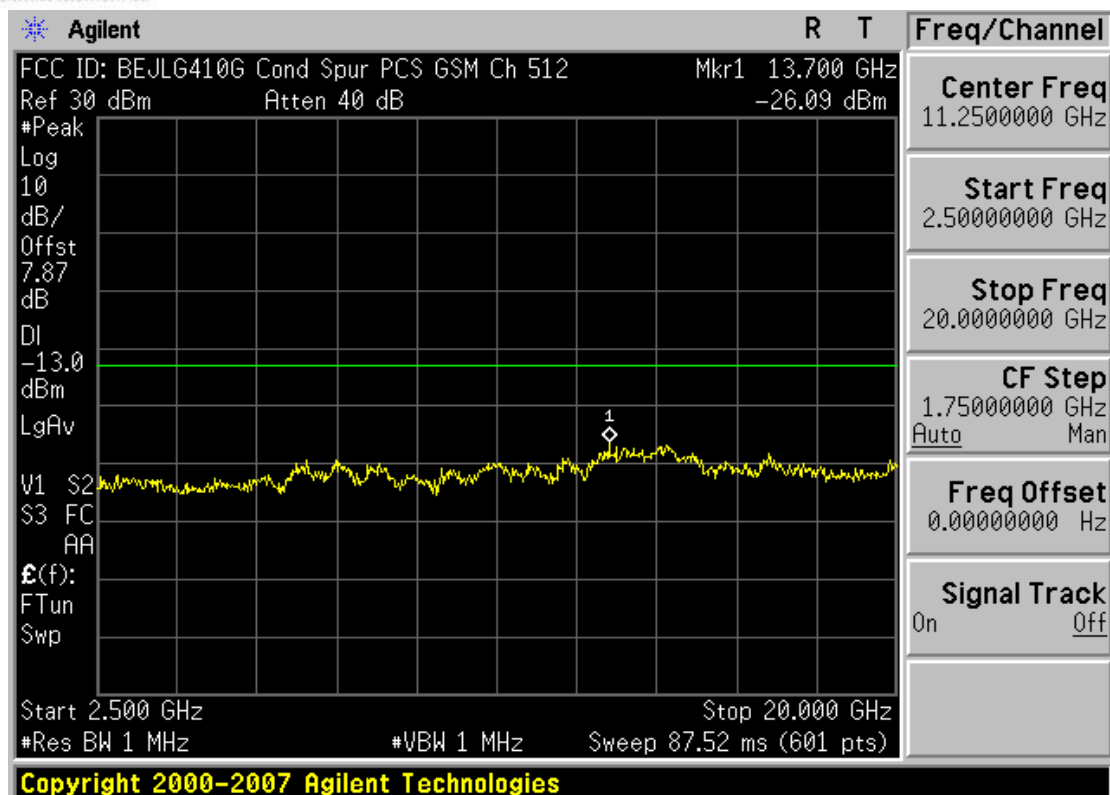


Plot 7-9. Band Edge Plot (Cellular GSM Mode - Ch. 251)

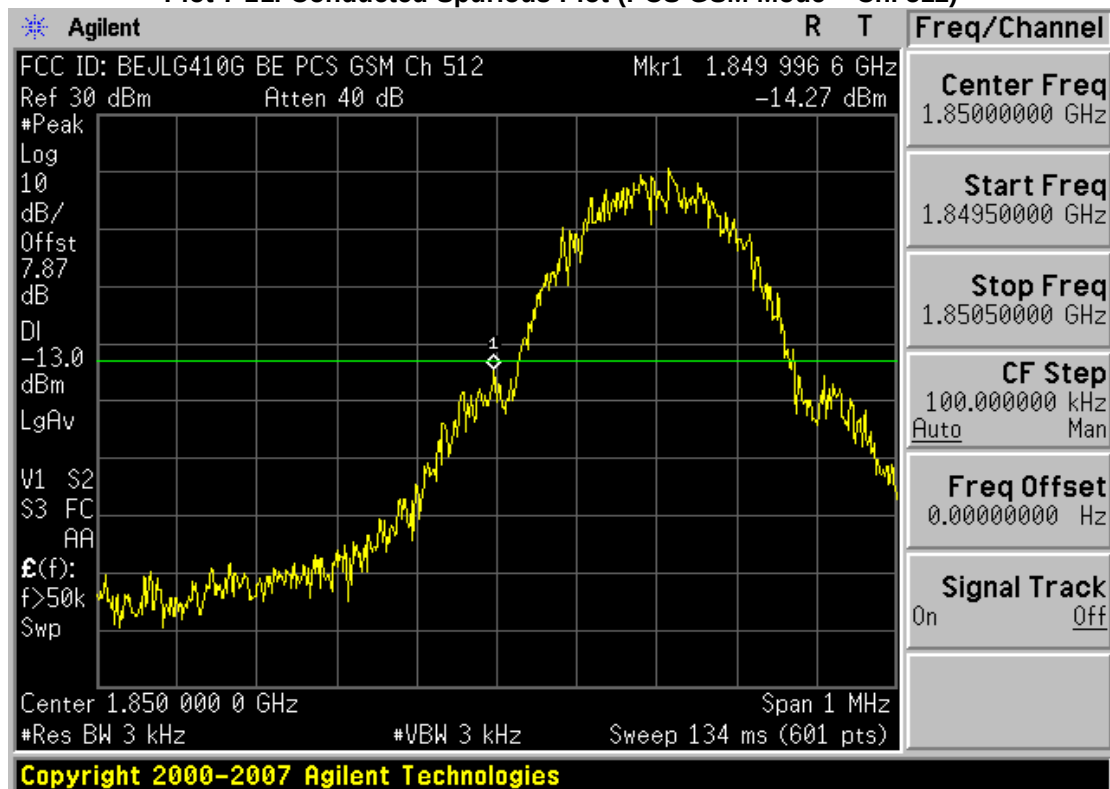


Plot 7-10. Conducted Spurious Plot (PCS GSM Mode - Ch. 512)

FCC ID: BEJLG410G	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)	LG	Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 29 of 35

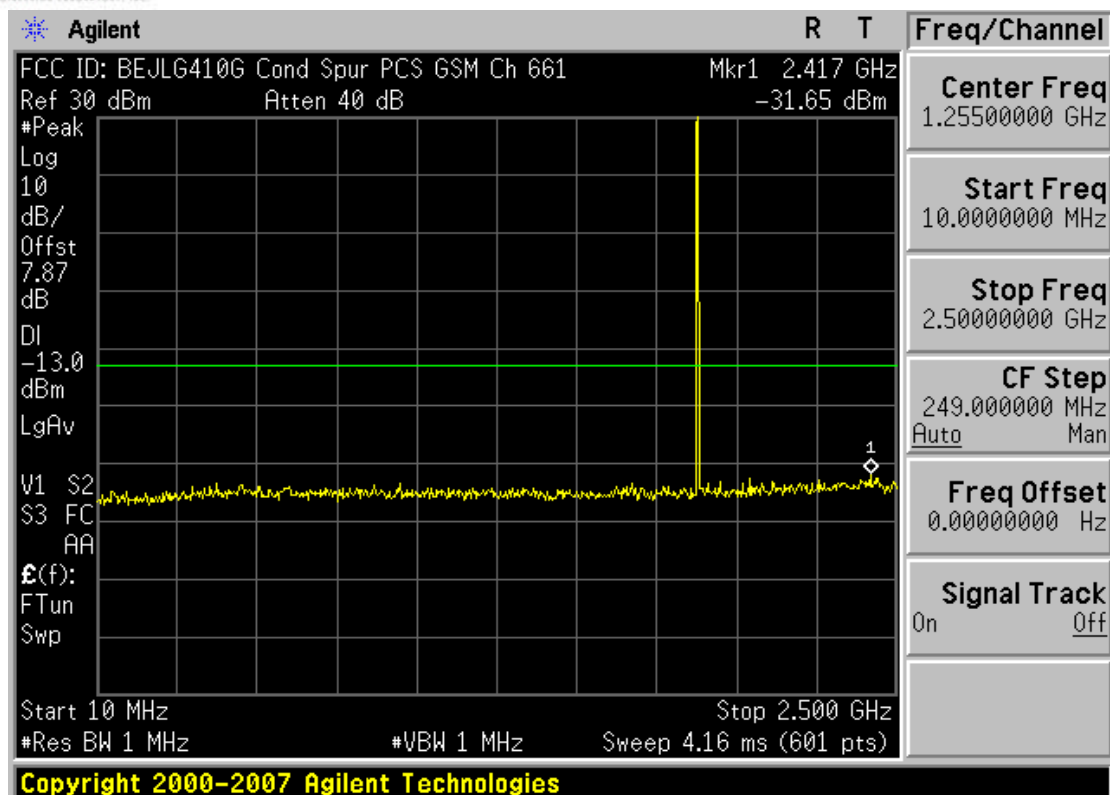


Plot 7-11. Conducted Spurious Plot (PCS GSM Mode – Ch. 512)

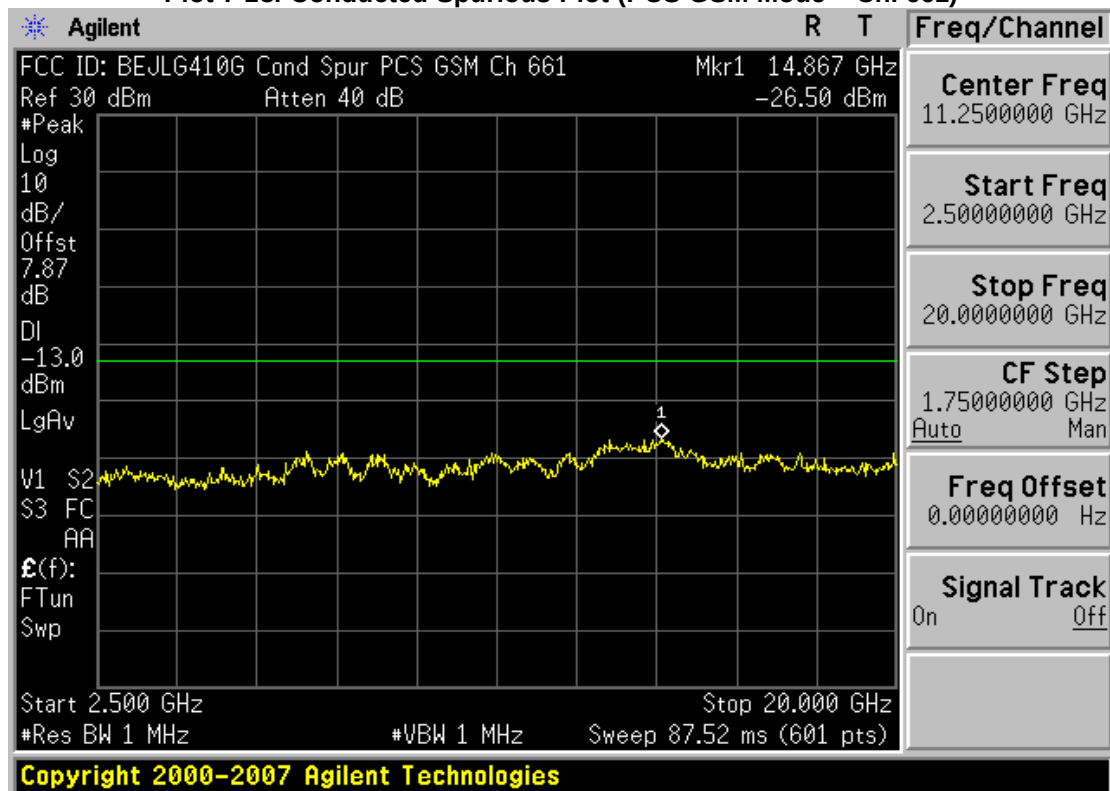


Plot 7-12. Band Edge Plot (PCS GSM Mode – Ch. 512)

FCC ID: BEJLG410G	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)	LG	Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 30 of 35

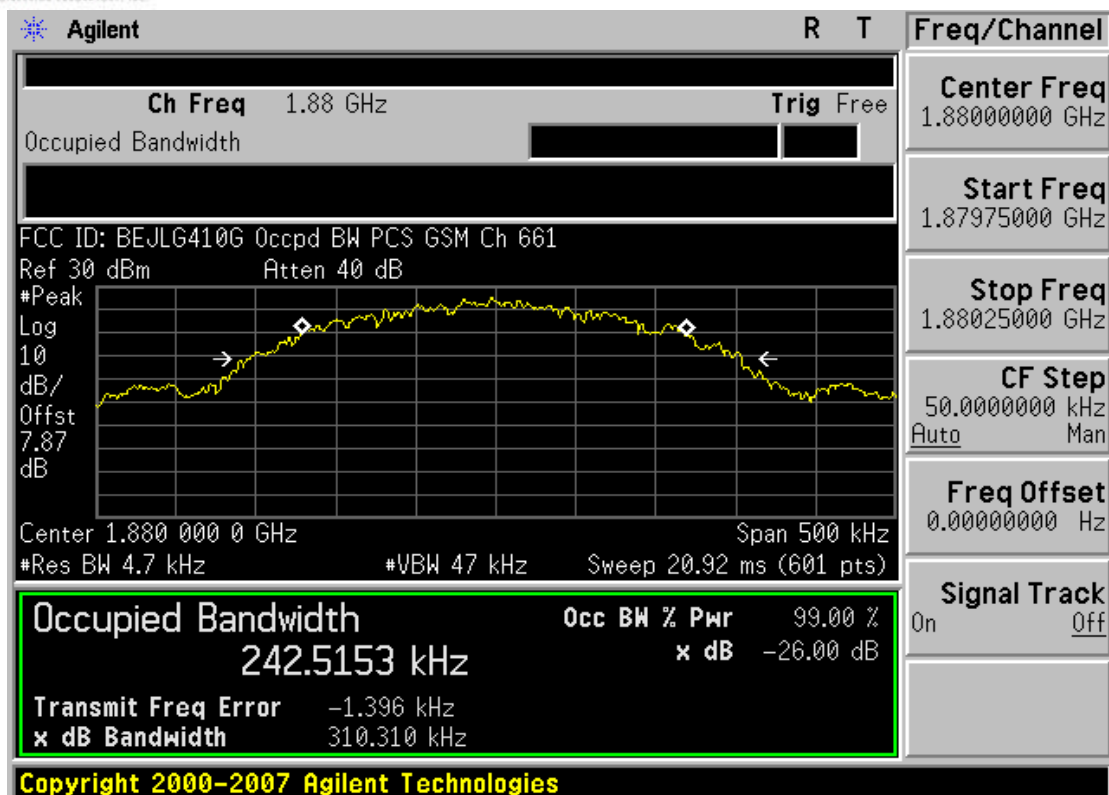


Plot 7-13. Conducted Spurious Plot (PCS GSM Mode – Ch. 661)

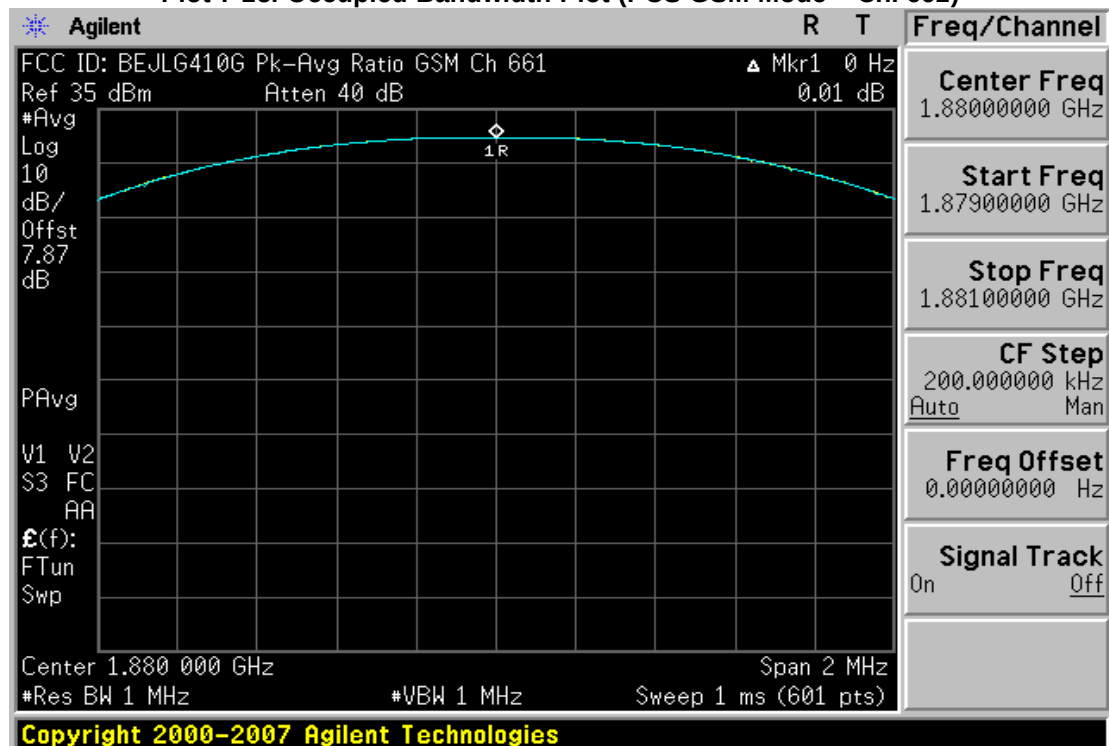


Plot 7-14. Conducted Spurious Plot (PCS GSM Mode – Ch. 661)

FCC ID: BEJLG410G	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)	LG	Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 31 of 35

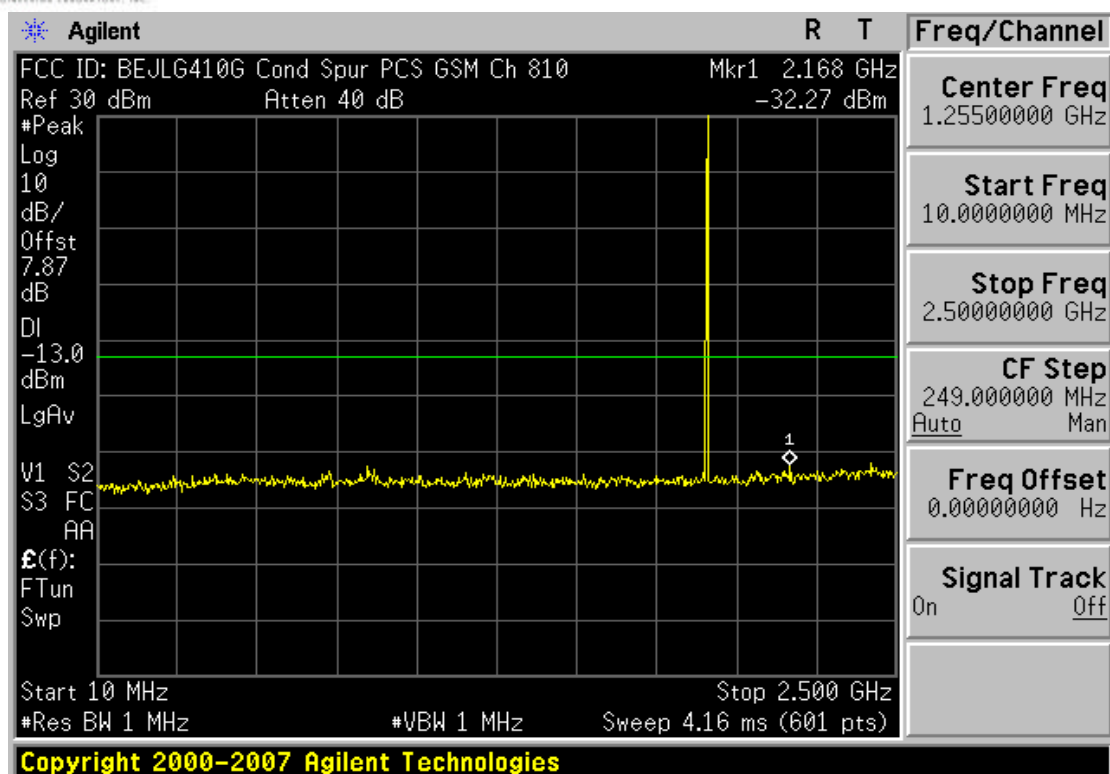


Plot 7-15. Occupied Bandwidth Plot (PCS GSM Mode - Ch. 661)

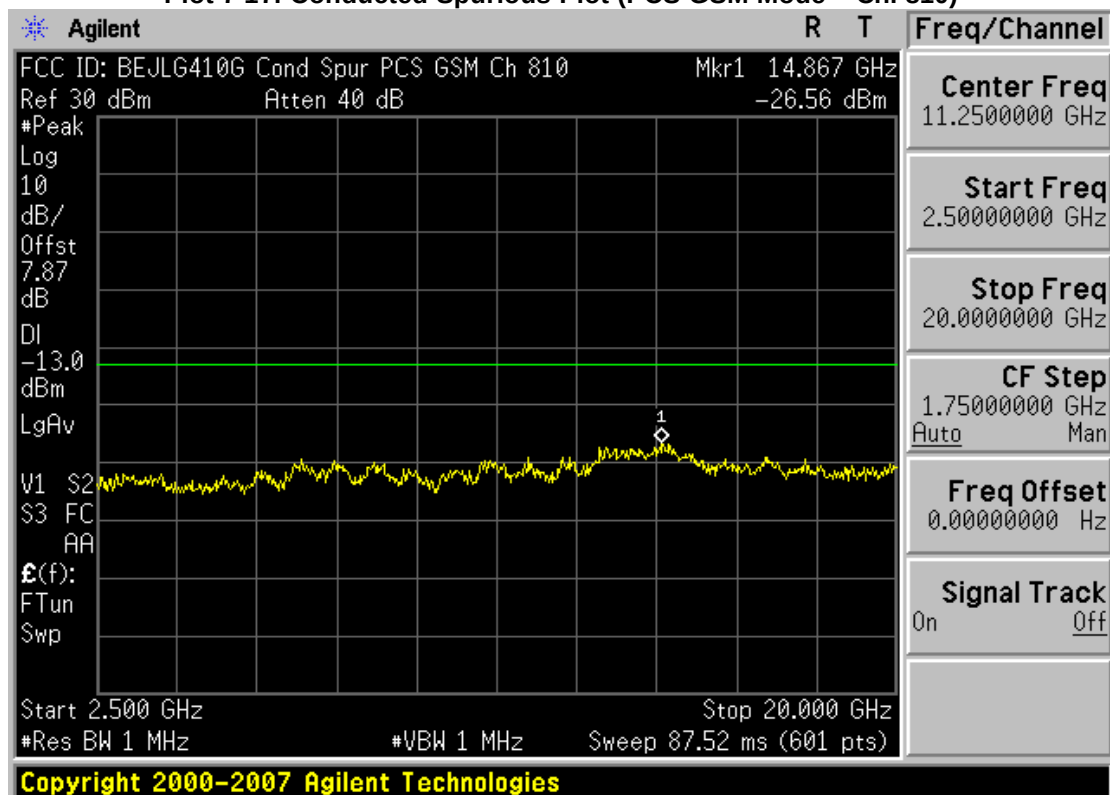


Plot 7-16. Peak-Average Ratio Plot (PCS GSM Mode - Ch. 661)

FCC ID: BEJLG410G	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)	LG	Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 32 of 35

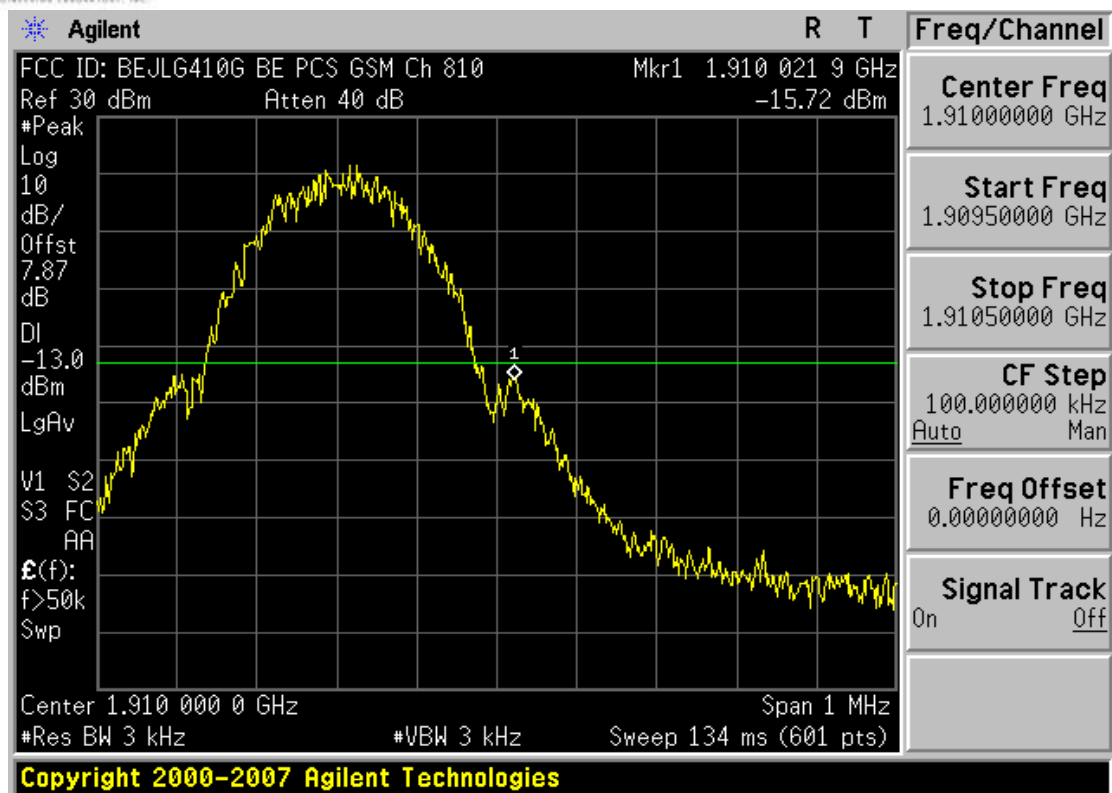


Plot 7-17. Conducted Spurious Plot (PCS GSM Mode – Ch. 810)



Plot 7-18. Conducted Spurious Plot (PCS GSM Mode – Ch. 810)

FCC ID: BEJLG410G	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)	LG	Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 33 of 35



Plot 7-19. Band Edge Plot (PCS GSM Mode – Ch. 810)

FCC ID: BEJLG410G	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)	LG	Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone		Page 34 of 35

8.0 CONCLUSION

The data collected show that the **LG 850/1900 GSM/GPRS Phone FCC ID: BEJLG410G** complies with all the requirements of Parts 2, 22, and 24 of the FCC rules.

FCC ID: BEJLG410G		FCC Pt. 22/24 GSM MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0810171523.BEJ	Test Dates: October 21-22, 2008	EUT Type: 850/1900 GSM/GPRS Phone	Page 35 of 35	